



\*\*FILE\*\*ID\*\*FORSTOP

C 2

FFFFFFFFF	000000	RRRRRRRR	SSSSSSSS	TTTTTTTT	000000	PPPPPPPP				
FFFFFFFFF	000000	RRRRRRRR	SSSSSSSS	TTTTTTTT	000000	PPPPPPPP				
FF	00	00	RR	RR	SS	TT	00	00	PP	PP
FF	00	00	RR	RR	SS	TT	00	00	PP	PP
FF	00	00	RR	RR	SS	TT	00	00	PP	PP
FF	00	00	RR	RR	SS	TT	00	00	PP	PP
FFFFFFF	00	00	RRRRRRRR	SSSSSS	TT	00	00	00	PPPPPPPP	
FFFFFFF	00	00	RRRRRRRR	SSSSSS	TT	00	00	00	PPPPPPPP	
FF	00	00	RR	RR	SS	TT	00	00	PP	
FF	00	00	RR	RR	SS	TT	00	00	PP	
FF	00	00	RR	RR	SS	TT	00	00	PP	
FF	00	00	RR	RR	SS	TT	00	00	PP	
FF	000000	RR	RR	SSSSSSSS	TT	000000	PP	....		
FF	000000	RR	RR	SSSSSSSS	TT	000000	PP	....		

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLL	IIIIII	SSSSSSSS

FOR  
Sym  
FOR  
SYS  
  
PSE  
---  
FC  
  
Pha  
---  
Ini  
Com  
Pas  
Sym  
Pas  
Sym  
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Cra  
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The  
159  
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131  
2 p

The  
159  
The  
131  
2 p  
  
Mac  
---  
\$2  
15  
The  
MAC

```
1 0001 0 MODULE FOR$STOP ( ! FORTRAN STOP statement
2 0002 0 IDENT = '1-004' ! File: FORSTOP.B32 Edit:DGP1004
3 0003 0 ) =
4 0004 1 BEGIN
5
6 0006 1 |
7 0007 1 ****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 ****
29 0029 1 *
30 0030 1 *
31 0031 1 ++
32 0032 1 FACILITY: FORTRAN Support Library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 Output optional string and suspend process
37 0037 1
38 0038 1 ENVIRONMENT: User Mode - AST re-entrant
39 0039 1
40 0040 1 AUTHOR: Thomas N. Hastings, CREATION DATE: 8-Aug-1977
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 Thomas N. Hastings, 8-Aug-1977: VERSION 0
45 0045 1 01 - original
46 0046 1 0-3 - Print FORTRAN STOP if no arg. TNH 13-Dec-77
47 0047 1 0-04 - Change to STARLET library. DGP 20-Apr-78
48 0048 1 0-05 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
49 0049 1 0-06 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78
50 0050 1 0-07 - Make PIC. TNH 30-June-78
51 0051 1 0-08 - Change file name to FORSTOP.B32, and change the name of the
52 0052 1 REQUIRE file similarly. JBS 14-NOV-78
53 0053 1 1-001 - Update version number and copyright notice. JBS 16-NOV-78
54 0054 1 1-002 - Return a value to keep BLISS compiler happy. JBS 27-NOV-78
55 0055 1 1-003 - Change REQUIRE file names from FOR... to OIS... JSB 06-DEC-78
56 0056 1 1-004 - Move ACTUALCOUNT into body of routine and initialize the class
57 0057 1 and d_type of default descriptor. DGP 28-Oct-1981
```

FOR\$STOP  
1-004

: 58 0058 1 !--

E 2  
16-Sep-1984 00:45:46  
14-Sep-1984 12:32:45 VAX-11 Bliss-32 V4.0-742  
[FORRTL.SRC]FORSTOP.B32;1

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FOR  
Tab

```
60      0059 1 | TABLE OF CONTENTS:  
61      0060 1 |  
62      0061 1 |  
63      0062 1 |  
64      0063 1 | FORWARD ROUTINE  
65      0064 1 | FOR$STOP;           ! STOP statement  
66      0065 1 |  
67      0066 1 |  
68      0067 1 | INCLUDE FILES:  
69      0068 1 |  
70      0069 1 | REQUIRE 'RTLIN:OTSMAC';      ! Define macros  
71      0263 1 | REQUIRE 'RTLIN:RTLPSECT';  ! Define DECLARE_PSECTS macro  
72      0358 1 | LIBRARY 'RTLSTARLE';      ! STARLET library for macros and symbols  
73      0359 1 |  
74      0360 1 | MACROS:  
75      0361 1 |  
76      0362 1 |  
77      0363 1 |  
78      0364 1 | EQUATED SYMBOLS:  
79      0365 1 |  
80      0366 1 |  
81      0367 1 |  
82      0368 1 | PSECT DECLARATIONS:  
83      0369 1 |  
84      0370 1 |  
85      0371 1 |     DECLARE_PSECTS (FOR);      ! declare PSECTs for FOR$ facility  
86      0372 1 |  
87      0373 1 |  
88      0374 1 | OWN STORAGE:  
89      0375 1 |  
90      0376 1 |  
91      0377 1 |  
92      0378 1 | EXTERNAL REFERENCES:  
93      0379 1 |  
94      0380 1 |  
95      0381 1 | EXTERNAL ROUTINE  
96      0382 1 |     LIB$PUT_OUTPUT: NOVALUE ADDRESSING_MODE(GENERAL); ! Output on device $OUTPUT
```

```
98 0383 1 GLOBAL ROUTINE FOR$STOP (      ! FORTRAN STOP statement
99 0384 1      MESSAGE_DSC_ADR)      ! Adr. of optional string descriptor to output
100 0385 1      =                  ! Value returned is $SUSPND completion code
101 0386 1      ++
102 0387 1      FUNCTIONAL DESCRIPTION:
103 0388 1
104 0389 1      FORTRAN STOP outputs an optional string on device $OUTPUT
105 0390 1      and calls $EXIT with a success completion status.
106 0391 1      If no argument is present, 'FORTRAN STOP' is printed.
107 0392 1
108 0393 1      FORMAL PARAMETERS:
109 0394 1
110 0395 1      message_dsc_addr.rt.dx      ! Adr. of optional string descriptor to output
111 0396 1
112 0397 1      IMPLICIT INPUTS:
113 0398 1
114 0399 1      Logical device assignment for $OUTPUT (see LIB$PUT_OUTPUT)
115 0400 1
116 0401 1      IMPLICIT OUTPUTS:
117 0402 1
118 0403 1      NONE
119 0404 1
120 0405 1      COMPLETION CODES:
121 0406 1
122 0407 1      NONE
123 0408 1
124 0409 1      SIDE EFFECTS:
125 0410 1
126 0411 1      Outputs message on device $OUTPUT and calls $EXIT with success code 1.
127 0412 1
128 0413 1      --
129 0414 1
130 0415 2      BEGIN
131 0416 2
132 0417 2      BUILTIN
133 0418 2      ACTUALCOUNT;      ! Return the number of actual parameters
134 0419 2      LOCAL
135 0420 2      DESCRIPTOR: DSC$DESCRIPTOR;      ! descriptor (needed to be PIC)
136 0421 2
137 0422 2      !
138 0423 2      Output optional message on device $OUTPUT, if arg present.
139 0424 2      !
140 0425 2
141 0426 2      IF ACTUALCOUNT() GEQ 1
142 0427 2      THEN
143 0428 2      LIB$PUT_OUTPUT (.MESSAGE_DSC_ADR)
144 0429 2
145 0430 3      BEGIN
146 0431 3      DESCRIPTOR[DSC$B_CLASS] = DSC$K_CLASS_S;
147 0432 3      DESCRIPTOR[DSC$B_DTYPE] = DSC$K_DTYPE_T;
148 0433 3      DESCRIPTOR[DSC$W_LENGTH] = 12;
149 0434 3      DESCRIPTOR[DSC$A_POINTER] = UPLIT ('FORTRAN STOP');
150 0435 3      LIB$PUT_OUTPUT (DESCRIPTOR);
151 0436 2      END;
152 0437 2
153 0438 2
154 0439 2      !+
```

```
:
: 155 0440 2 ! EXIT with success completion status code of 1.
: 156 0441 2 !-
: 157 0442 2
: 158 0443 3 SEXIT (CODE=1)
: 159 0444 1 END; ! End of routine FOR$STOP
```

```
.TITLE FOR$STOP
.IDENT \1-004\
.PSECT _FOR$CODE,NOWRT, SHR, PIC,2
50 4F 54 53 20 4E 41 52 54 52 4F 46 00000 P.AAA: .ASCII \FORTRAN STOP\
.EXTN LIB$PUT_OUTPUT, SYS$EXIT

      0000 00000 .ENTRY FOR$STOP, Save nothing ; 0383
      08 C2 00002 SUBL2 #8, SP
      6C 95 00005 TSTB (AP) ; 0426
      05 13 00007 BEQL 1$ ; 0428
      04 AC DD 00009 PUSHL MESSAGE_DSC_ADR
      0E 11 0000C BRB 2$ ; 0433
      04 6E 010E000C 8F DO 0000E 1$: MOVL #17694732, DESCRIPTOR ; 0434
      AE DC AF 9E 00015 MOVAB P.AAA, DESCRIPTOR+4 ; 0435
      00000000G 00 5E DD 0001A PUSHL SP ; 0443
      01 FB 0001C 2$: CALLS #1, LIB$PUT_OUTPUT
      00000000G 00 01 DD 00023 PUSHL #1 ; 0444
      01 FB 00025 CALLS #1, SYS$EXIT
      04 0002C RET
```

```
: Routine Size: 45 bytes, Routine Base: _FOR$CODE + 000C
```

```
: 160 0445 1 END
: 161 0446 0 ELUDOM ! End of module FOR$STOP
```

#### PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$CODE	57	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

#### Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_255\$DUA28:[SYSLIB]STARLET.L32;1	9776	8	0	581	00:01.0

;

COMMAND QUALIFIERS

;

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:FORSTOP/OBJ=OBJ\$:FORSTOP MSRC\$:FORSTOP/UPDATE=(ENH\$:FORSTOP)

;

Size: 45 code + 12 data bytes

Run Time: 00:04.4

Elapsed Time: 00:18.5

Lines/CPU Min: 6054

Lexemes/CPU-Min: 22656

Memory Used: 49 pages

Compilation Complete

0184 AH-BT13A-SE  
VAX/VMS V4.0

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LIS

FORUDFRU  
LIS

FORUDFWF  
LIS

FORTIME  
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FORUDFRF  
LIS